

131-16

Domestic furnaces

RED CROSS

FURNOLA



CATALOG NO. 61

CO-OPERATIVE FOUNDRY CO.
Rochester, New York

[BLANK PAGE]



CCA

"Good Heating Made Certain"

THE RED CROSS FURNOLA

*... a powerful circulating type of heater which
circulates heat like a warm air furnace!*

AN outstanding achievement in the construction of warm air heating apparatus is the Red Cross Furnola!

A powerful heating unit which, from a ground floor location—in the living room or dining room, will circulate warmth and comfort throughout the entire home.

Constructed along lines and principles similar to the well-known Red Cross Empire Pipeless Furnace, the Red Cross Furnola consists of a powerful cast iron heating unit proper; an inner lining and an outer casing. Drawing cold air from the floor level, it warms it to a comfortable temperature, then distributes it through the grill opening on top of the unit.

In addition to its great heating power, the Furnola is very economical to operate! It will heat from five to seven rooms or do the work of two or three ordinary parlor stoves—and do it better—with the fuel of one.

This is because the Red Cross Furnola circulates heat! It circulates instead of radiates—and circulates to all parts of the home.

The improved principles of construction: this method of circulating the heat instead of radiating it and the low cost of the Furnola make it the ideal heating system for old homes without a furnace and both old and new homes without a basement. It is also widely used in the heating of offices, stores, shops, public buildings, rural schools, etc.

With touches of beauty in every line, beauty that is made more pronounced by its lasting finish of grained walnut in porcelain enamel, Red Cross designers have provided in the Furnola a heating unit which harmonizes with the finest of fine furniture in any home.

At a cost substantially less, the Red Cross Furnola is also finished with a blue steel body and a lustrous black porcelain enamel and nickel trim. A very attractive unit well suited for use in stores, offices, etc.

The Red Cross Furnola burns hard or soft coal, wood or coke and can be equipped with natural gas ring. It is shipped completely assembled, ready for use promptly upon receipt.

"Good Heating Made Certain"



16-W RED CROSS FURNOLA

Grained Walnut, Porcelain Enamel Finish

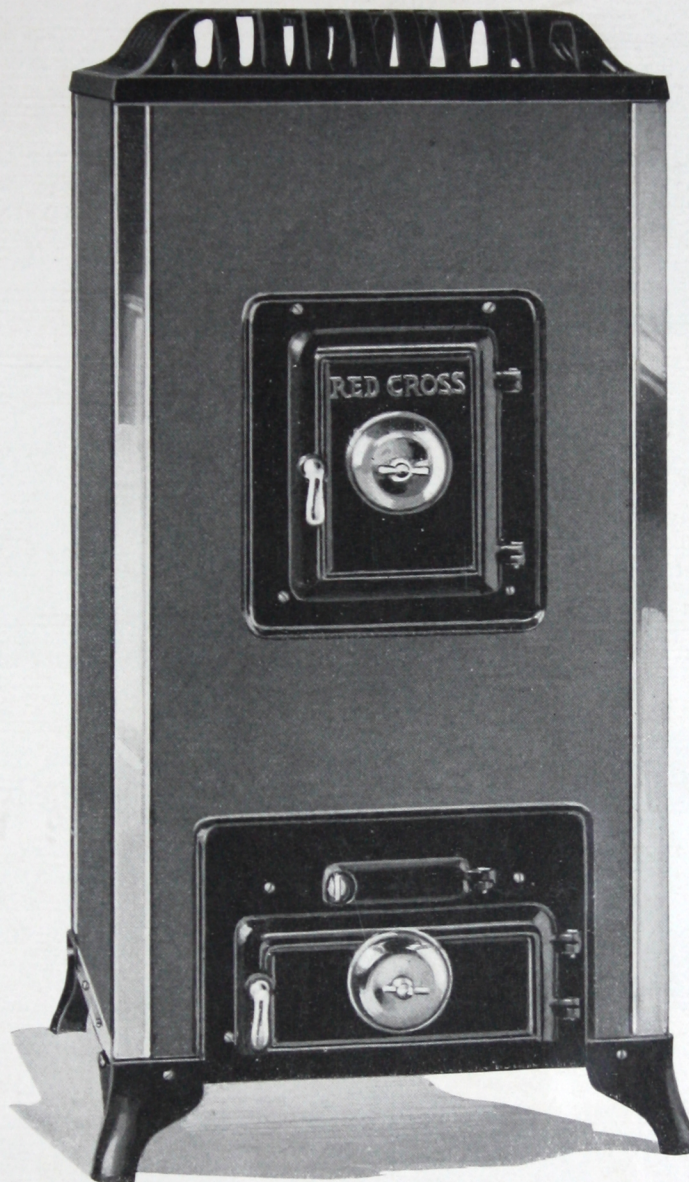
| | | | |
|------------------------------|-----|--------------------------------|----------|
| Height..... | 52" | Size Feed Door Opening.... | 8½x11½" |
| Width (square)..... | 24" | Size Ash Pit Door Opening.. | 5½x13¼" |
| Diameter Fire Pot (top)..... | 16" | Diameter Smoke Pipe..... | 7" |
| Depth Fire Pot..... | 12" | Weight Crated (shipping)... | 500 lbs. |
| Diameter Eclipse Grate..... | 12" | Heating Capacity 5 to 7 rooms. | |

4

RED CROSS

RANGES  FURNACES

"Good Heating Made Certain"



16-B RED CROSS FURNOLA

Blue Steel Finish with Black Porcelain Enamel and Nickel Trim

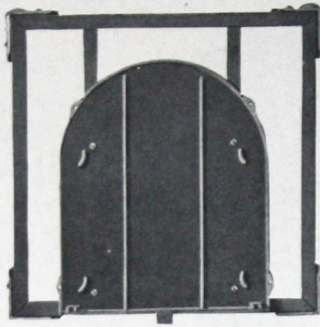
| | | | |
|------------------------------|-----|--------------------------------|---------------|
| Height..... | 52" | Size Feed Door Opening..... | 8½x11½" |
| Width (square)..... | 24" | Size Ash Pit Door Opening..... | 5½x13¼" |
| Diameter Fire Pot (top)..... | 16" | Diameter Smoke Pipe..... | 7" |
| Depth Fire Pot..... | 12" | Weight Crated (shipping)..... | 500 lbs. |
| Diameter Eclipse Grate..... | 12" | Heating Capacity | 5 to 7 rooms. |

5

RED CROSS

RANGES FURNACES

"Good Heating Made Certain"

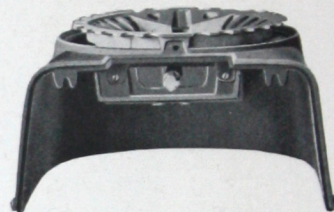


WELDED, ANGLE IRON BASE CAST IRON ASH PIT BOTTOM

Strong and durable is the construction of this main bottom of the Red Cross Furnola! Its frame work is of extra heavy angle iron, firmly welded together. The ash pit bottom is of cast iron, bolted to the angle iron frame. Note the size of the ash pit as determined from the size of the cast bottom.

LARGE, ROOMY ASH PIT DUST-PROOF SHAKING DEVICE

Looking directly into the ash pit, this shows its unusual height and depth. The shaker shank—for operating the grate—is shown extending through the sliding device (grate follower), which prevents dust and ashes from escaping while operating the grate.

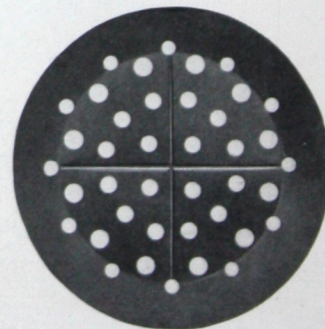


THE ECLIPSE GRATE WITH DUMPING CENTER

This grate gives a double action! It riddles from left to right, accumulating clinkers, etc., in the center section, from where the accumulation is removed by dumping or turning over the center section. A highly efficient type of grate which gives plenty of free air supply for burning fuel economically and evenly. May be easily removed through feed door opening.

SPECIAL FLAT GRATE FOR BURNING WOOD ONLY

When wood is burned exclusively, in the Red Cross Furnola, this type of flat-wood grate is recommended. It is furnished at a slight extra cost, and when placed over the regular eclipse grate lessens the amount of free air supply and provides for more efficient burning of wood than is possible with the regular grate alone.



"Good Heating Made Certain"

LARGE, HEAVY FIRE POT WITH DEEP CUP JOINT

The Furnola fire pot is 16 inches wide at the top and 12 inches deep. It is as nearly straight as can be moulded accurately. The thickness is graduated to give maximum heat radiation and to make proper allowance for expansion and contraction. The entire opening at bottom of this fire pot is exposed to grate area, insuring an even burning fire with fuel economy.

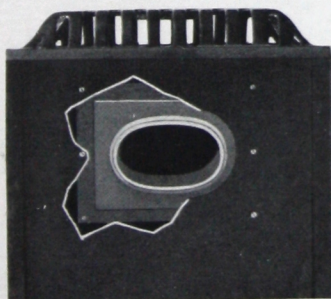


COMBUSTION DOME AND SMOKE COLLAR CAST IN ONE PIECE

Perfect combustion with a resulting economy in fuel is obtained in this combustion dome through correct proportioning and designing. Its shape insures maximum heat radiation and is self-cleaning. Note the large feed mouth opening for accommodating a large shovel of coal or chunks of wood.

CAST IRON ELBOW WITH SLIDING DAMPER CONTROL

Doing away with the necessity of a sheet-iron smoke-pipe elbow and its frequent cause for replacement, due to accumulation of soot, etc., this cast iron elbow furnished with the Furnola also forms a firm, solid foundation from which to run the smoke pipe to the chimney. Equipped with a sliding damper control and cemented and bolted to the heating unit proper, it is permanently dust-proof and gas-tight.



CASING ALLOWANCE FOR EXPANSION AND CONTRACTION

This shows the rear panel expansion device as constructed on the Red Cross Furnola casing to allow for expansion and contraction. The center plate moves freely, up or down, as the castings of the heating unit proper expand or contract, thus preventing any possibility of straining or warping the rear panel.

7

RED CROSS
RANGES  FURNACES

"Good Heating Made Certain"



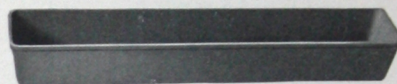
NATURAL GAS RING

(Furnished as an extra)

This cut-away view, looking into the Furnola fire pot, pictures the natural gas ring, as furnished for the Furnola, in its correct position. Coal, wood or coke may be burned in this fire pot without affecting the gas ring. Furnished as an extra.

VAPOR PAN—1 gal. Capacity

(Furnished as an extra)



Located where the warm air will absorb the greatest amount of moisture—on top just over the smoke collar extension and combustion dome—this vapor pan is porcelain enameled inside and out, to prevent rust and corrosion. Water may be added through the top grating without removing the vapor pan, if desired.

FURNOLA CAST IRON HEATING UNIT

Completely Assembled, Less Casings

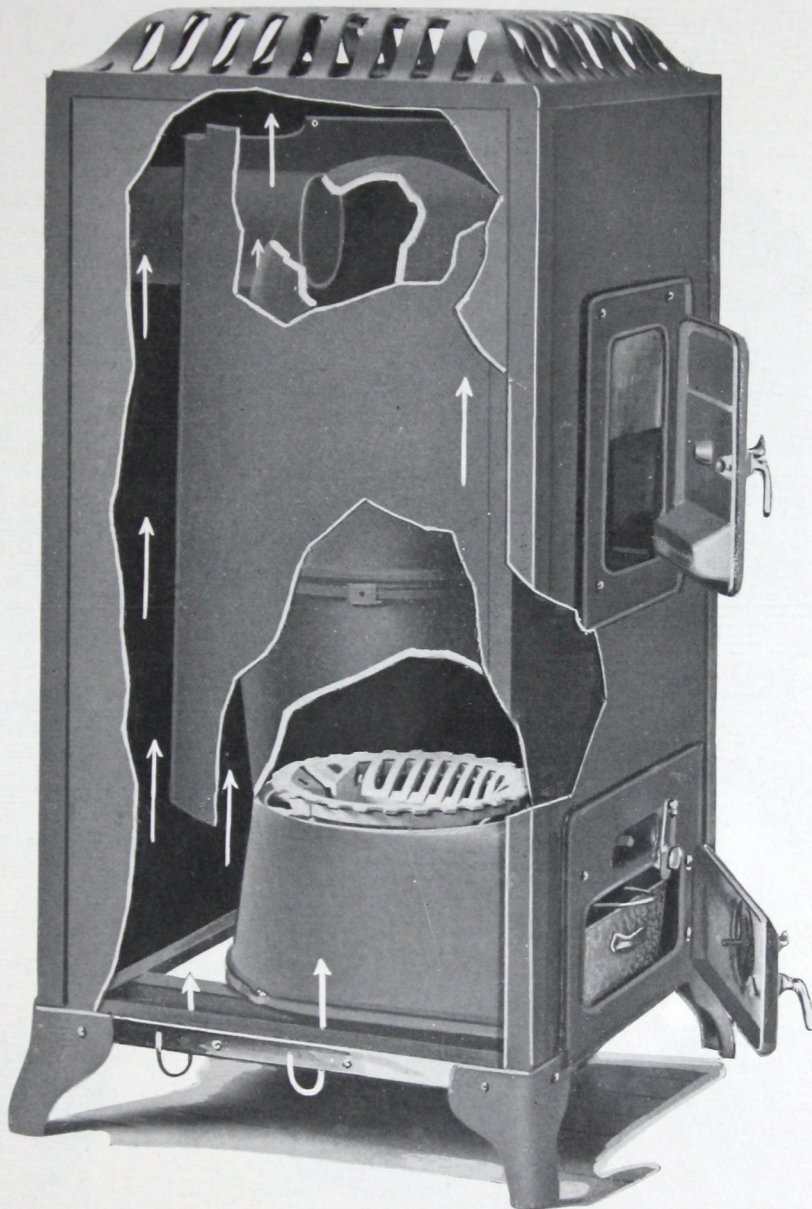
Showing the welded angle iron base, the large ash pit, full sized fire pot and big combustion dome, all assembled, as they appear inside the double casings of the Red Cross Furnola.

Note the smoke collar extension which is cast in one piece with the combustion dome and extends through to the cast elbow on the rear of the outer casing.

To this powerful cast iron heating unit is added the inner and outer casings of the Red Cross Furnola which provides for the method of circulation, which has made this type of heating unit so efficient.



"Good Heating Made Certain"



"INSIDE FACTS" ON THE RED CROSS FURNOLA

Showing the double casing arrangement and why the Furnola circulates heat like a warm air furnace! Arrows indicate cold air passing into the heater at the bottom, then circulating up around the hot castings of the fire pot and dome, it is warmed and gradually rising, passes out through the top grating, to distribute itself to every nook and corner. Note the hot blast device on inside of feed door for promoting more efficient combustion with a resulting fuel economy.

9

RED CROSS
RANGES  FURNACES

"Good Heating Made Certain"



GENESEE OAK HEATER

Improved Style

The improved Red Cross Genesee Oak is a splendid heater which can be depended upon to give efficient heating service with an economical consumption of fuel.

It is beautiful in appearance, being handsomely decorated in the latest style of plain finish ornamentation with a finely nickeled trim and mica opening in the feed door.

The main body is made of extra thick polished steel with cast iron top, main front, body ring and ash pit. The fire pot is heavily ribbed and full size. A cast bottom under the regular swing cover prevents leakage of smoke or gas.

Burns hard or soft coal, wood or coke.

SIZES

| | | |
|----------|----------|--------------|
| No. 713— | Fire Pot | 12" Diameter |
| " 715— | " | 14" " |
| " 717— | " | 16" " |
| " 719— | " | 18" " |

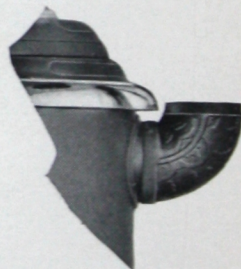
Magazines can be furnished for all sizes at extra cost



TRIANGULAR STYLE GRATE now standard equipment on the Genesee Oak. Burns all fuels with utmost economy. Triples the life of grate bars because of three surfaces for actual use.



NATURAL GAS RING FIRE POT for all sizes except the 18" fire pot size. Burns natural gas and will not clog with dust or ashes. When this ring is ordered, heater must be equipped with draw-out style grate instead of the regular triangular style.



REMOVABLE CAST ELBOW. Will last the entire life of heater and eliminate the necessity of frequent replacement as with the regular sheet iron smoke pipe elbow.

10

RED CROSS
RANGES  FURNACES

"Good Heating Made Certain"

RED CROSS SYLVAN COTTAGE PARLOR STOVE



FOR BURNING WOOD

The Red Cross Sylvan has long been one of the most popular heaters in the Red Cross line. Constructed entirely of cast iron throughout, it has a large feed door in one end for handling big chunks of wood. Underneath the swing cover on the top of the Sylvan is a regular cooking cover which adds greatly to the convenience of this splendid heater. A slide draft in front and a check wheel in the rear afford ample facilities for controlling the fire easily. With its beautiful carved effect and harmonious nickel trim, the Sylvan is an unusually attractive wood heater.

Made in one size only, the No. 43, which burns wood up to 24 inches in length.

II

RED CROSS
RANGES  FURNACES

"Good Heating Made Certain"

FARMERS' BOILERS



FOR BURNING WOOD OR COAL

Of unusually heavy, durable construction with only the finest grade of tested metals entering into its manufacture, this type of Farmer's Boiler can be relied upon to give long years of uninterrupted service. It is used for the purpose of heating the Caldron Kettles, pictured on the opposite page, and can be equipped for burning wood or coal in all sizes except the 90-gallon, which is for burning wood only. Farmers, butchers, stockmen, etc., use this type of stove—they use it for rendering lard, cooking feed, scalding, etc. Constructed in two sections for easy handling.

Made in the following sizes:

| FOR WOOD | | FOR COAL | |
|------------|------------|------------|------------|
| 15 Gallons | 60 Gallons | 15 Gallons | 45 Gallons |
| 30 " | 90 " | 30 " | 60 " |
| 45 " | | | |

"Good Heating Made Certain"

CALDRON KETTLES



15 to 90 Gallons Capacity

These are the Caldron Kettles most generally used in connection with the Farmers' Boilers, pictured on the opposite page. Each size is carefully built with a graduated thickness to insure durability and quick heating, and each kettle has strong extension arms on each side to facilitate handling. If desired, these kettles can be purchased separate from the Farmer's Boiler and set in a brick foundation. Best results are obtained, however, when the kettle and stove are used together.

15 Gallons, 13 $\frac{1}{2}$ inches deep, 24 inches diameter
30 Gallons, 16 $\frac{3}{4}$ inches deep, 29 inches diameter
45 Gallons, 18 $\frac{1}{4}$ inches deep, 32 inches diameter
60 Gallons, 19 inches deep, 35 $\frac{1}{2}$ inches diameter
90 Gallons, 21 inches deep, 40 inches diameter
6 Pail Kettles

13

RED CROSS
RANGES  FURNACES



[BLANK PAGE]



CCA

[BLANK PAGE]



CCA

RED CROSS

RANGES  FURNACES

TRADE-MARK REG. U. S. PAT. OFF.

Manufactured by
CO-OPERATIVE FOUNDRY COMPANY

ROCHESTER, NEW YORK

*Makers of Ranges, Furnaces and Heaters exclusively
for more than half a century*

Western Branch :
505 SO. CLINTON ST., CHICAGO, ILL.



Digitized by:



ASSOCIATION FOR
PRESERVATION TECHNOLOGY,
INTERNATIONAL

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

www.apti.org

From the collection of:



CANADIAN CENTRE FOR ARCHITECTURE /
CENTRE CANADIEN D'ARCHITECTURE

www.cca.qc.ca